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38. ES and Institutions: looking beyond PES scheme attraction (OPEN) & 62. Co-investment and reward mechanisms for ecosystem services (OPEN)

Coordination challenges for the provision of ecosystem services within strategies of climate change adaptation: a participatory modeling experience in rural territories of Latin America

Presenting author: Abigail Fallot

Other authors: Tahia Devisscher, Jean-François Le Coq

Institution: CIRAD-GREEN and CATIE-CCC

Contact: fallot@cirad.fr

In situations where climate change adaptation strategies count on ecosystem services (ES), several issues are emerging, where the continuity in ES provision is threatened, mainly with land use change increasing erosion and sedimentation. The lack of sustainability of agricultural activities of crucial importance for ES requires specific analysis accounting for the diversity of standpoints. The purpose is to understand together the logics of intervention of the different actors implied in the processes possibly leading to the degradation or interruption of ES. For that matter, we developed local participatory modelling where the actors are invited to build a conceptual representation of the functioning of their common territory around an issue of ES provision. In the frameworks of the EcoAdapt project (Bolivia, Argentina, Chile) and of an exploratory research in Costa Rica, one of the main results obtained with such participatory modelling is to point out coordination failures between institutions with a central role in the provision of ES. Instead of focusing on the responsibility of one institution in particular, participatory modelling allows to better understand how the achievements of one institution depends on its interactions with the other actors and its accounting of undergoing dynamics, either social, economic or ecological. This research paves the way for collective action to deal with ES provision and climate change adaptation.